

WHAT IS CLAIMED IS:

- 1 1. A driving method for a Thin Film Transistor (TFT)
2 array, capable of saving power, comprising the steps:
3 implementing an Application Specific Integrated Circuit
4 chip;
5 determining a predetermined mode;
6 dividing a Thin Film Transistor array frame into a
7 plurality of zones according to the predetermined mode,
8 wherein the plurality of zones are grouped into graphic and
9 non-graphic regions; and
10 signaling a control signal by the Application Specific
11 Integrated Circuit to determine the driving type required
12 for each zone according to the plurality of zones grouped.
- 1 2. The method of Claim 1, wherein the predetermined
2 mode is a standby mode.
- 1 3. The method of Claim 1, wherein the predetermined
2 mode is a graphic mode.
- 1 4. The method of Claim 1, wherein the predetermined
2 mode is a video mode.
- 1 5. The method of Claim 1, wherein the predetermined
2 mode is dictated by the manufacturer.
- 1 6. The method of Claim 1, wherein the graphic and non-
2 graphic regions located on a frame are determined by the
3 manufacturer.

1 7. The method of Claim 1, wherein the driving type in
2 the graphic region uses a line inversion.

1 8. The method of Claim 1, wherein the driving type in
2 the non-graphic region uses a frame inversion.

1 9. The method of Claim 1, wherein the step of
2 determining a predetermined mode is performed by a central
3 processing unit (CPU).

1 10. The method of Claim 1, wherein the step of
2 determining a predetermined mode is performed by an
3 operating system.

1 11. The method of Claim 1, further comprising a step of
2 signaling the data associated with the plurality of zones to
3 the ASIC chip after the dividing step